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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Qian Zhang et al.

Examiner: Fox, Jamal A

Patent No.: 6,999,432

Group Art Unit: 2664

Issue Date: February 14, 2006

Confirmation No.: 5371

Customer No.: 22971

Docket No: 154649.02

Title: CHANNEL AND QUALITY OF SERVICE ADAPTATION FOR MULTIMEDIA DELIVERY OVER
WIRELESS NETWORKS

Attn: Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

We are transmitting herewith the attached:

- ☒ Authorization to charge the Certificate of Correction fee of \$100.00 to the Deposit Account No. **50-0463**.
- ☒ Request for Certificate of Correction (1 pg.).
- ☒ Certificate of Correction Form - PTO-1050 (3 pgs.)
- ☒ A return postcard.

Please charge any additional fees or credit overpayment to Deposit Account No. 50-0463.

Customer Number: 22971

By: /Sung T. Kim/
Attorney Name: Sung T. Kim
Reg. No.: 45,398

CERTIFICATE UNDER 37 CFR § 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Attn: Certificate of Correction Branch, Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450, on this 9th day of June 2009.

Christine Hartness
Christine Hartness

Certificate
JUN 18 2009
of Correction

IN UNITED STATES PATENT AND TRADEMARK OFFICE

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Title: CHANNEL AND QUALITY OF SERVICE ADAPTATION FOR MULTIMEDIA
DELIVERY OVER WIRELESS NETWORKS

REQUEST FOR CERTIFICATION OF CORRECTION

Attn: Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

It is requested that a Certificate of Correction be issued correcting printing errors appearing in the above-identified United States patent. Two copies of the text of the Certificate in the suggested form are enclosed.

Pursuant to 1.20(a), the examiner is authorized to charge the Certificate of Correction fee of \$100.00 to the Deposit Account No. **50-0463**.

Issuance of the Certificate of Correction would neither expand nor contract the scope of the claims as properly allowed, and re-examination is not required.

The Examiner is authorized to charge any additional fees or credit overpayment to Deposit Account No. **50-0463**.

Respectfully submitted,

Customer Number: 22971

Date: April 24, 2009By: /Sung T. Kim/06/15/2009 MELANCO 00000044 500463 6999432Attorney Name: Sung T. Kim:1811 100.00 DAReg. No.: 45,398

CERTIFICATE UNDER 37 CFR § 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Attn: Certificate of Correction Branch, Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450, on this 9th day of June 2009.

Christine Hartness
Christine Hartness

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(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,999,432
DATED : February 14, 2006
INVENTOR(S) : Qian Zhang et al.

It is certified that error appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the face page, in field (54), in "Title", in column 1, line 2, after "MULTIMEDIA" insert - - DELIVERY - -.

In column 1, line 2, after "MULTIMEDIA" insert - - DELIVERY - -.

In column 2, line 22, delete "Quality-of-Service" and insert - - Quality of Service - -, therefor.

In column 3, line 42, delete "22a-22b" and insert - - 22a-22f - -, therefor.

In column 3, line 47, delete "20a-20" and insert - - 20a-20b - -, therefor.

In column 3, line 49, delete "24a and 24b" and insert - - 24a-24c - -, therefor.

In column 6, line 26, after "one-" insert - - way - -.

In column 7, line 3, after "all" insert - - configuration operations - -.

In column 10, line 61, delete " X_i " and insert - - X_1 - -, therefor.

In column 11, line 59, delete " $R_i=F(D_i)$ " and insert - - $R_1=F(D_1)$ - -, therefor.

In column 14, line 49, delete "NR" and insert - - N_R - -, therefor.


In column 15, line(s) 1-5, delete " $AUB = B_{trans} \times \frac{1 - P_{u,ff}}{2 - P_{u,ss} - P_{u,ff}} = B_{trans} \times \frac{1 - P_{u,fs}}{1 + P_{u,fs} - P_{u,ss}}$ " and
insert - -
 $AUB = B_{trans} \times \frac{1 - P_{u,ff}}{2 - P_{u,ss} - P_{u,ff}} = B_{trans} \times \frac{1 - P_{u,fs}}{1 + P_{u,fs} - P_{u,ss}}$ - -, therefor.

MAILING ADDRESS OF SENDER:

PATENT NO. 6,999,432

CPA Global
P.O. Box 52050
Minneapolis, MN 55402

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Atty Docket No: 154649.02

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,999,432
DATED : February 14, 2006
INVENTOR(S) : Qian Zhang et al.

It is certified that error appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 23, line(s) 1-5, delete " $P_{fail,packet,layer}(i, j) \left| \prod_{m=1}^{i-1} (1 - P_{fail,packet,layer}(m, j)) \right|$ " and

insert - - $P_{fail,layer}(i, j) = P_{fail,packet,layer}(i, j) \prod_{m=1}^{i-1} (1 - P_{fail,packet,layer}(m, j))$ - -, therefor.

In column 23, line 13, delete " bn_1 " and insert - - bn_i - -, therefor.

$$PC_{ARQ}(R_{ARQ}) = \sum_{i=1}^{bn} \rho c(R_{s_base}(i),$$

$$(t_1) + \sum_{j=2}^{N_{max}-1} \left\{ \sum_{i=1}^{bn} [P_{fail}(i, j-1) \times \rho c(R_{s_base}(i), t_j)] \right\}$$

In column 24, line(s) 52-59, delete " and

insert - - $PC_{ARQ}(R_{ARQ}) = \sum_{i=1}^{bn} \rho c(R_{s_base}(i), t_1) + \sum_{j=2}^{N_{max}-1} \left\{ \sum_{i=1}^{bn} [P_{fail}(i, j-1) \times \rho c(R_{s_base}(i), t_j)] \right\}$ - -, therefor.

In column 27, line 20, after "TABLE 2" insert - - b - -.


In column 27, line 65, after "23a-23c" insert - -) - -.

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,999,432

DATED : February 14, 2006

INVENTOR(S) : Qian Zhang et al.

It is certified that error appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 28, line 4, delete "comparison" and insert - - comparisons - -, therefor.

In column 30, line 35, after "technologies" insert - - . - -.

In column 34, line 3, after "general-" insert - - purpose - -.

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